

4.3 Site Surveys By County (Map & Description)

4.3.4 Carter County

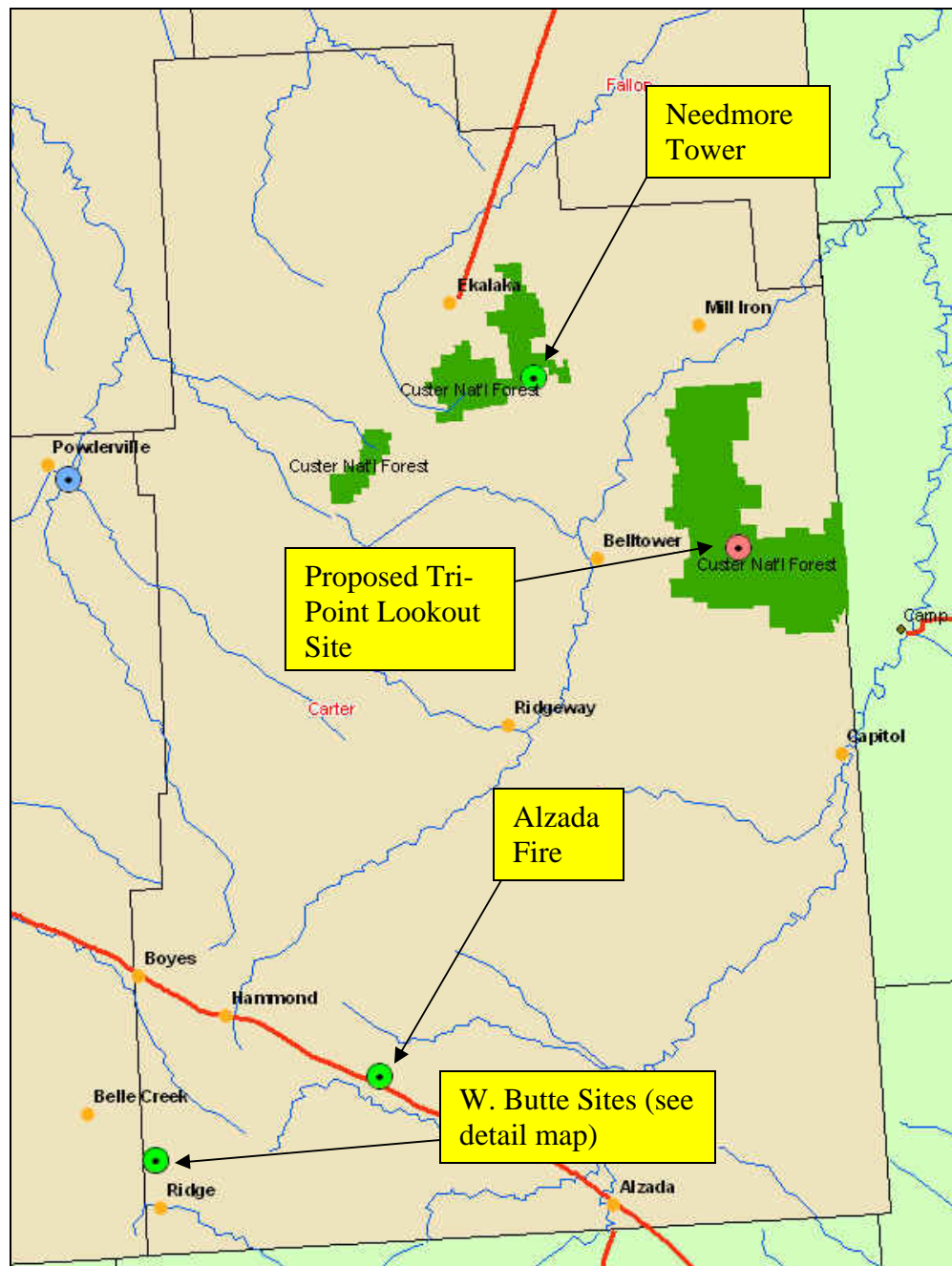


Figure 41 – Carter County Antenna Sites

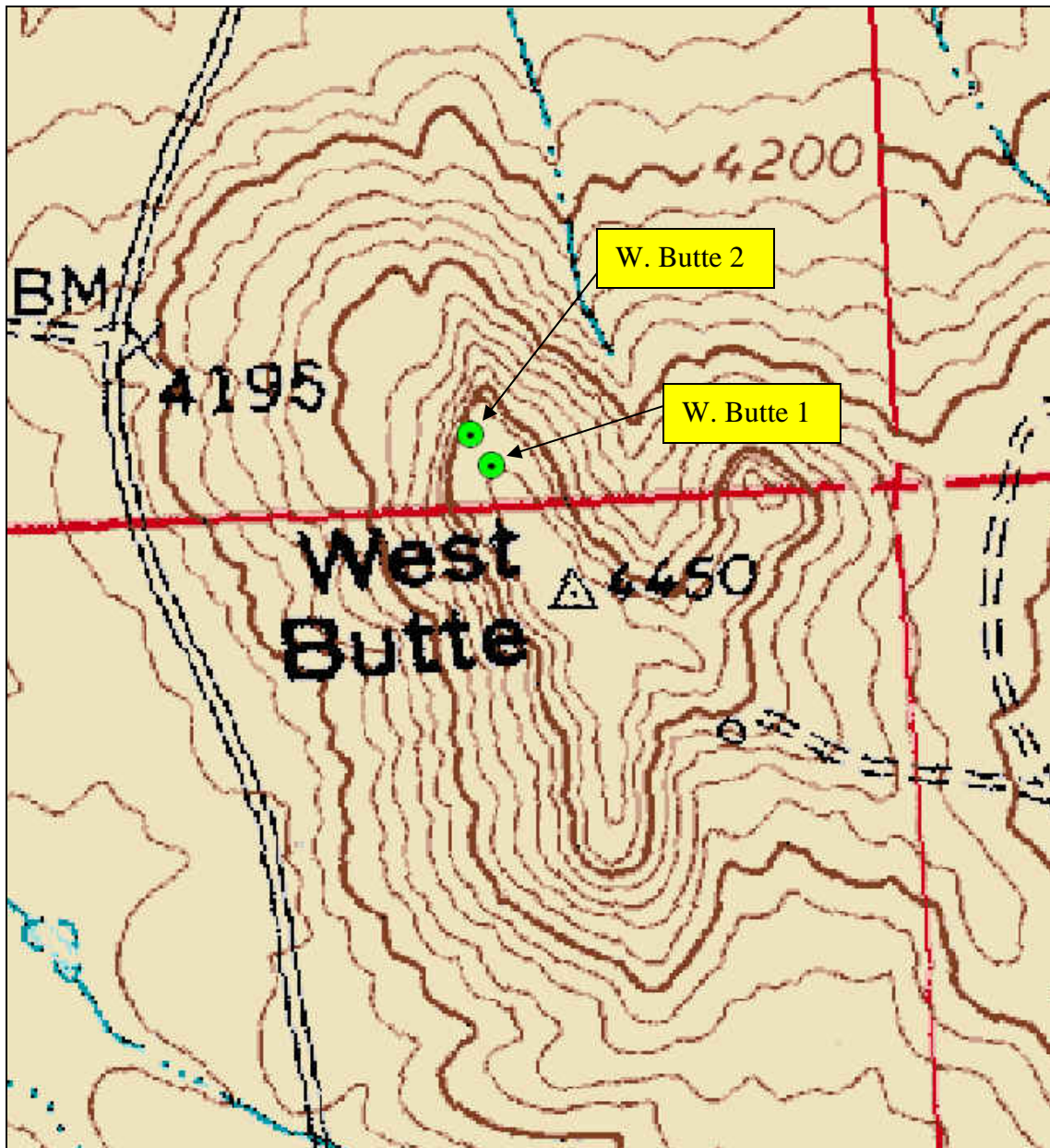


Figure 42 – Detail Of W. Butte Antenna Sites

Site Name: Alzada Fire



Area: Alzada, MT

Location: 18m NW of Alzada, MT

Land Owner: BLM

Ground Elevation: 3750'

Latitude: N45 09' 30.8"

Longitude: W104 42' 57.3"

Status: In Use

Rent:

Tower Height: 250'

Building Type: Steel

Building Size: 7.5x10

Approximate Space Used (%):70

Primary Power: 24v DC Solar and wind charged batteries

Backup Power:

Telephone Available? No

Tower Users: Carter Co. Sheriff, FBI (Disconnected)



Is Combiner Used And Describe: No

General Comments:

Survey Completed By: TAB Electronics

Completed Date: Jun-05

Tower Manufacturer:

Tower Model:

Tower Owner: Carter Co.

Age (Years):

Tower Type: Guyed

Fall Protection: None

Climbing Device: Tower Rungs - Steel Bars

Of Guy Wires: 12

Of Legs: 3

Leg Spacing: 18"

Grounding System: Ground rod at base.

Other Towers Nearby? No

Access In Summer: 2-wheel Drive

Access In Winter: 4-wheel Drive

Criticality: Extremely Critical

Meets FCC OET 65?

Meets Antenna Loading?

Microwave In Use? No

Describe:

Microwave Capable? Unknown

Describe:

Radio 1: Repeater

Antenna Type: 4-element open dipole

Antenna Height: 230-250'

Frequencies In Use: TX - 155.025, TX 158.880

User Agency: Carter Co.

Filter, Duplexer, Etc.: 4-cavity WACOM BPBR

P25? No

Other:

Radio 2: Repeater (not powered up)

Antenna Type: PD 220

Antenna Height: 80-100'

Frequencies In Use: TX - 167.2875, RX - 162.7625

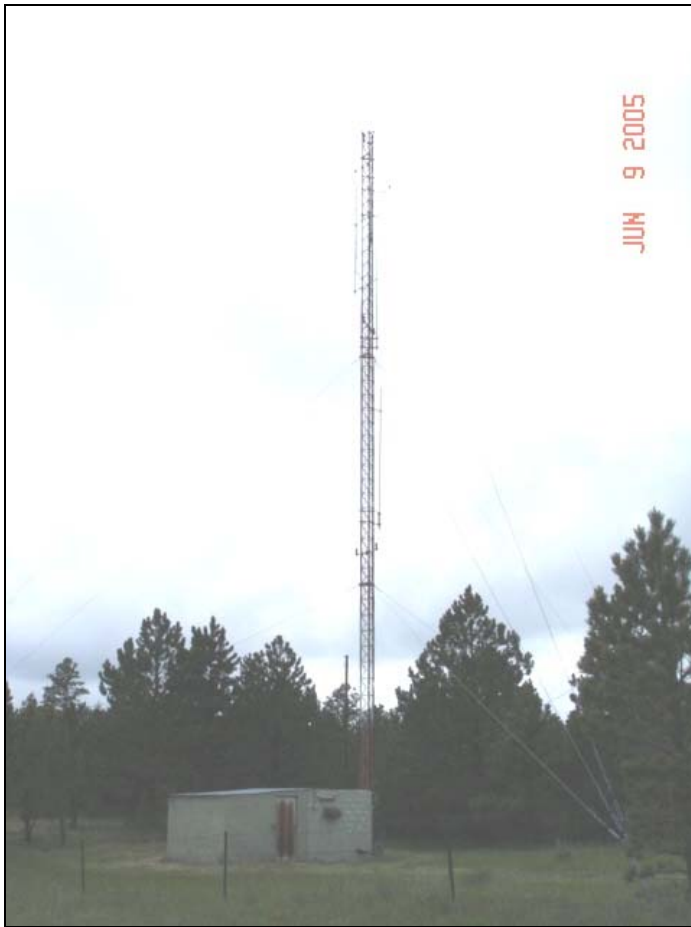
User Agency: FBI

Filter, Duplexer, Etc.: ?

P25? Unknown

Other:

Site Name: Needmore Tower



Area: Ekalaka, MT
Location: 5m SE of Ekalaka near Camp Needmore
Land Owner: US Forest Service
Ground Elevation: 3970'
Latitude: N45 48' 50.5"
Longitude: W104 26' 52"
Status: In Use
Rent:
Tower Height: 100'
Building Type: Block
Building Size: 10x18
Approximate Space Used (%): 60
Primary Power: 120/240 single phase
Backup Power: 4kw Onan genset?
Telephone Available? No



Tower Users: Southeast Electric Coop, Midrivers Comm., Bridger Pipeline LLC, FBI, Carter County., State of Montana

Is Combiner Used And Describe: No

General Comments:

Survey Completed By: TAB Electronics

Completed Date: Jun-05

Tower Manufacturer:

Tower Model:

Tower Owner:

Age (Years):

Tower Type: Guyed

Fall Protection: None

Climbing Device: Tower Rungs - Steel Tube or Angle

Of Guy Wires: 9

Of Legs: 3

Leg Spacing: 18"

Grounding System: Rod at base of tower

Other Towers Nearby? No

Access In Summer: 2-wheel Drive

Access In Winter: 4-wheel Drive

Criticality: Extremely Critical

Meets FCC OET 65?

Meets Antenna Loading?

Microwave In Use? No

Describe:

Microwave Capable?

Describe:

Radio 1: Repeater

Antenna Type: Small fiberglass whip

Antenna Height: 90-100'

Frequencies In Use: TX 151.175, RX 151.475

User Agency: MT Dept. of State Lands

Filter, Duplexer, Etc.: 6 cavity duplexer, WACOM BPBR WP 642

Other:

Radio 2: Repeater

Antenna Type: 4 element open dipole array

Antenna Height: 74-94'

Frequencies In Use: TX 155.025, RX 158.880

User Agency: Carter County

Filter, Duplexer, Etc.: Decibel compact 6 cavity 2-12 MHz sep.

P25? Unknown

Other:



Radio 3: Repeater

Antenna Type: PD 220

Antenna Height: 39-60'

Frequencies In Use: unknown

User Agency: FBI

Filter, Duplexer, Etc.: unknown

P25? No

Other:

Radio 4: Base

Antenna Type: Unity gain monopole w/ ground plane

Antenna Height: 100-109'

Frequencies In Use: 47.940 TX/RX

User Agency: Southeast Electric Coop

Filter, Duplexer, Etc.: None

P25? Unknown

Other:

Radio 5: Repeater

Antenna Type: Fiberglass Stick

Antenna Height: 82-91'

Frequencies In Use: TX 834.8625, RX 809.8625

User Agency: Bridger Pipeline LLC

Filter, Duplexer, Etc.: Decibel TDF6110A Duplexer

P25? Unknown

Other:

Radio 6: Repeater

Antenna Type: PD 455

Antenna Height: 64-86'

Frequencies In Use: 451.450, 456.450

User Agency: Midrivers Communications

Filter, Duplexer, Etc.: Unknown

P25? Unknown

Other:

Site Name: W. Butte 1



Area: Broadus, MT

Location: 3m N of Ridge, MT

Land Owner: W Butte Ranch

Ground Elevation: 4440'

Latitude: N45 05' 29.2"

Longitude: W105 01' 20.6"

Status: In Use

Rent:

Tower Height: 120'

Building Type: Metal

Building Size: 8x9

Approximate Space Used (%):60

Primary Power: 120/240 single phase

Backup Power: User-supplied batteries



Telephone Available? No

Tower Users: Powder River Co - Wood buildings, TV Club, wood bldg.

Is Combiner Used And Describe: No

General Comments: Licensing - The shortest of these towers ran afoul of the Belle Creek airport slope. It is possible that, if another study were to be done on the 120' tower, it potentially may require painting & lighting. This is not a certainty.

Survey Completed By:

Completed Date:

Tower Manufacturer:

Tower Model:

Tower Owner:

Age (Years):

Tower Type:

Fall Protection:

Climbing Device:

Of Guy Wires:

Of Legs:

Leg Spacing:

Grounding System:

Other Towers Nearby?

Access In Summer:

Access In Winter:

Criticality:

Meets FCC OET 65?

Meets Antenna Loading?

Microwave In Use?

Describe:

Microwave Capable?

Describe:

Radio 1: Repeater

Antenna Type: Fiberglass stick antenna

Antenna Height: 120-140'

Frequencies In Use: TX - 151.070, RX - 156.060

User Agency: MT DOT

Filter, Duplexer, Etc.: 4-cavity complex duplexer

P25? Unknown

Other:

Radio 2: Repeater

Antenna Type: Fiberglass stick

Antenna Height: 50'

Frequencies In Use: TX - 451.800, RX - 456.800

User Agency: Farmer



Filter, Duplexer, Etc.: Wacom WP678-R2 BPBR 4-cavity

P25? Unknown

Other: Itinerant frequencies

Radio 3: Repeater

Antenna Type: Open dipole

Antenna Height: 110'

Frequencies In Use: TX - 452.975, RX - 457.975

User Agency: Belle Fourche Pipeline

Filter, Duplexer, Etc.: Wacom WP678 4-cavity

P25? Unknown

Other:

Radio 4: Repeater

Antenna Type: Open dipole

Antenna Height: 80'

Frequencies In Use: TX - 451.075, RX - 456.075

User Agency: Belle Fourche Pipeline

Filter, Duplexer, Etc.: Wacom WP678 4-cavity

P25? Unknown

Other:

Radio 5: Repeater

Antenna Type: Fiberglass stick

Antenna Height: 50'

Frequencies In Use: TX - 461.700, RX - 466.700

User Agency: Encore Operating LP

Filter, Duplexer, Etc.: 4-cavity complex duplexer

P25? Unknown

Other:

Radio 6: Repeater

Antenna Type: 4-element open dipole

Antenna Height: 25-45'

Frequencies In Use: TX - 154.860, RX - 155.460

User Agency: Montana Highway Patrol

Filter, Duplexer, Etc.: TXRX 28-37-11, 6-cavity duplexer

P25? Unknown

Other:

Site Name: W. Butte 2



Area: Broadus, MT

Location: 3m N of Ridge, MT

Land Owner: W Butte Ranch

Ground Elevation: 4425'

Latitude: N45 05' 30"

Longitude: W105 01' 21.3"

Status: In Use

Rent: \$50

Tower Height: 14' & 30'

Building Type: Wood

Building Size: 7x11

Approximate Space Used (%):70

Primary Power: 120/240 single phase

Backup Power: User-supplied batteries



Telephone Available? No

Tower Users: Powder River Co - Wood buildings, TV Club, wood bldg.

Is Combiner Used And Describe: No

General Comments: Licensing - The shortest of these towers ran afoul of the Belle Creek airport slope. It is possible that, if another study were to be done on the 120' tower, it potentially may require painting & lighting. This is not a certainty.

Survey Completed By: TAB Electronics

Completed Date: Jun-05

Tower Manufacturer: Rohn

Tower Model: 456

Tower Owner:

Age (Years):

Tower Type: Guyed

Fall Protection: None

Climbing Device: Tower Rungs - Steel Bars

Of Guy Wires: 15

Of Legs: 3

Leg Spacing: 17"

Grounding System: 1 ground rod

Other Towers Nearby? Cluster of short towers.

Access In Summer: 4-wheel Drive

Access In Winter: 4-wheel Drive

Criticality: Extremely Critical

Meets FCC OET 65?

Meets Antenna Loading?

Microwave In Use? No

Describe:

Microwave Capable? Unknown

Describe:

Radio 1: Repeater

Antenna Type: PD 220

Antenna Height: 14-36'

Frequencies In Use: TX - 154.830 - RX - 158.730

User Agency: Powder River Co.

Filter, Duplexer, Etc.: 6-cavity complex duplexer

P25? No

Other:

Radio 2: TV Translator

Antenna Type: Yagis & Paraflector

Antenna Height: Yagi - 30', Paraflector - 10'

Frequencies In Use: TX - Channel 9, RX - Channel 55

User Agency: Powder River Co. TV Board



Filter, Duplexer, Etc.: None

P25? Unknown

Other:

Site Name: W. Butte 3



Area: Broadus, MT

Location: 3m N of Ridge, MT

Land Owner: W Butte Ranch

Ground Elevation: 4425'

Latitude: ?

Longitude: ?

Status: Unknown

Rent:

Tower Height: ?

Building Type: ?

Building Size: ?

Approximate Space Used (%): ?

Primary Power: ?

Backup Power: ?



Telephone Available? ?

Tower Users: ?

Is Combiner Used And Describe: ?

General Comments: ?

Survey Completed By: TAB Electronics

Completed Date: Jun-05

Tower Manufacturer: Rohn

Tower Model: 456

Tower Owner:

Age (Years):

Tower Type: Guyed

Fall Protection: None

Climbing Device: Tower Rungs - Steel Bars

Of Guy Wires: 15

Of Legs: 3

Leg Spacing: 17"

Grounding System: 1 ground rod

Other Towers Nearby? Cluster of short towers.

Access In Summer: 4-wheel Drive

Access In Winter: 4-wheel Drive

Criticality: Extremely Critical

Meets FCC OET 65?

Meets Antenna Loading?

Microwave In Use? No

Describe:

Microwave Capable? Unknown

Describe:

Radio 1: ?

Antenna Type: ?

Antenna Height: ?

Frequencies In Use: ?

User Agency: ?

Filter, Duplexer, Etc.: ?

P25? Unknown

Other: ?